

AMENDMENTS

In accordance with 37 CFR §1.121, please amend the Application as set forth below.

Amendment of the Specification

Please amend the specification as set forth below.

Please amend paragraph on page 15, lines 3-14 as follows:

In another test, as shown in Fig. 7, a Spray System 30L-PP spray gun with a TP-250050-SS spray nozzle was used to spray tap water at a pressure at 30 psi. On the electrode holder 78, there is a electrode holder cup 79 that covers and keeps part of the electrode holder dry ~~try~~ to prevent current leakage through the wetted surface. The measured charge density was 0.6-0.7 milli-coulomb. Based on the measured particle size distribution, as shown in Fig. 8 and the Rayleigh limit of charge density, as shown in Fig. 9, the maximum charge density of the water particles sprayed with 250050 nozzle at 30 psi is found to be 2.14 milli-coulomb. As the measured charge density is comparable, i.e., in the same order, as the Rayleigh limit, it is implied that some of the larger water particles could have been refined due to the electrostatic charge. As shown in Fig. 10, when water is sprayed toward a grounded metal plate from a 2-ft distance, the transfer efficiency increases from 50% - 65% without electrostatic charge to 70% - 85% with electrostatic charge.